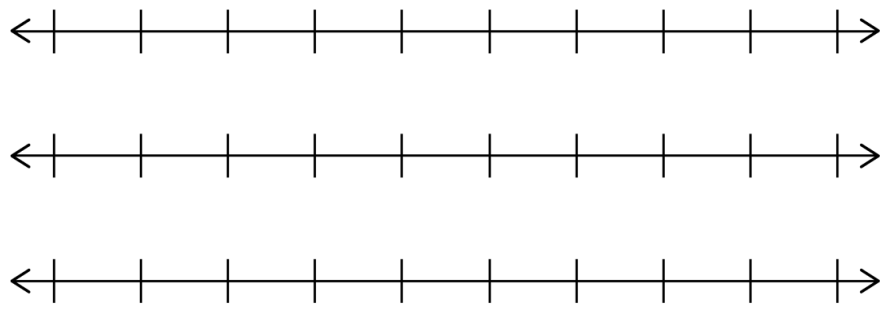
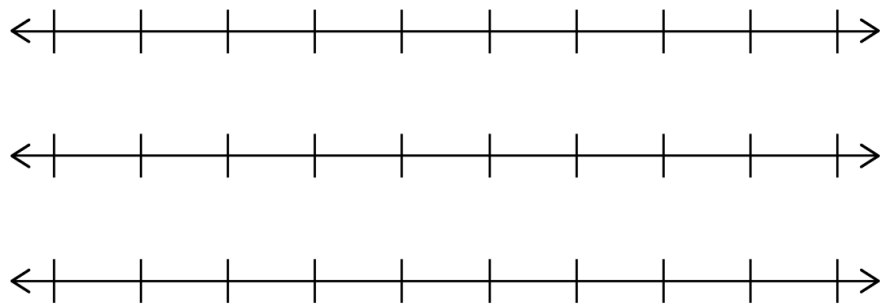
OperationsonSetsofRealNumbers

Use the number lines given to perform the following operations. As well as "number line" form, give your answer in interval notation and set builder notation:

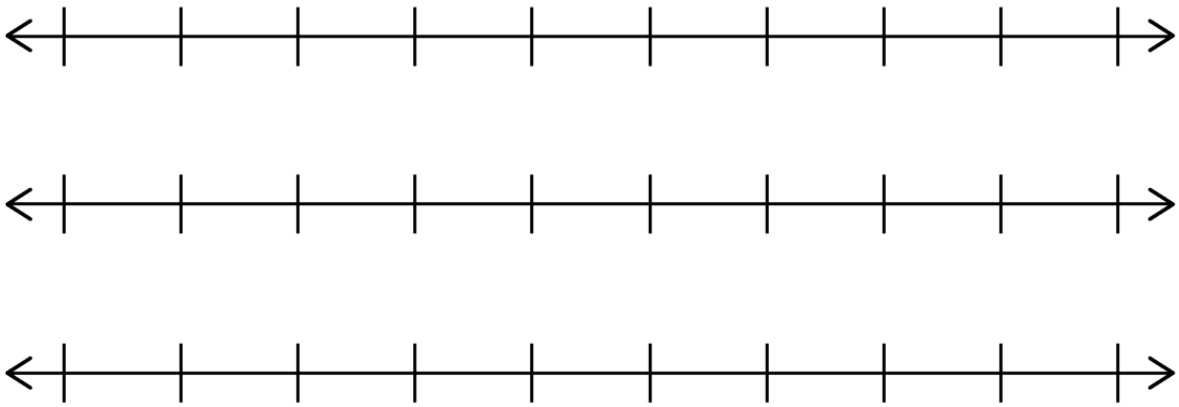
1. $[-6,3[\setminus]0,4[$



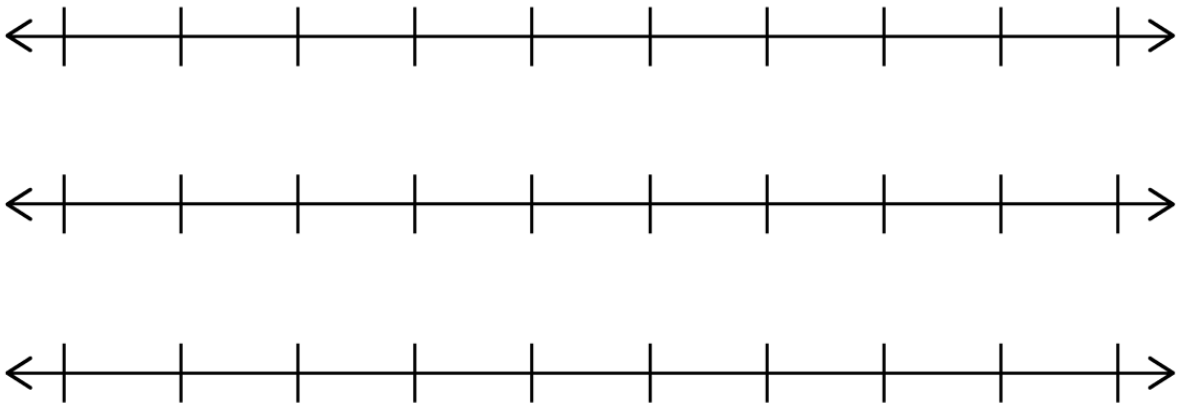
2. $[-2,0[\setminus]-1,2]$



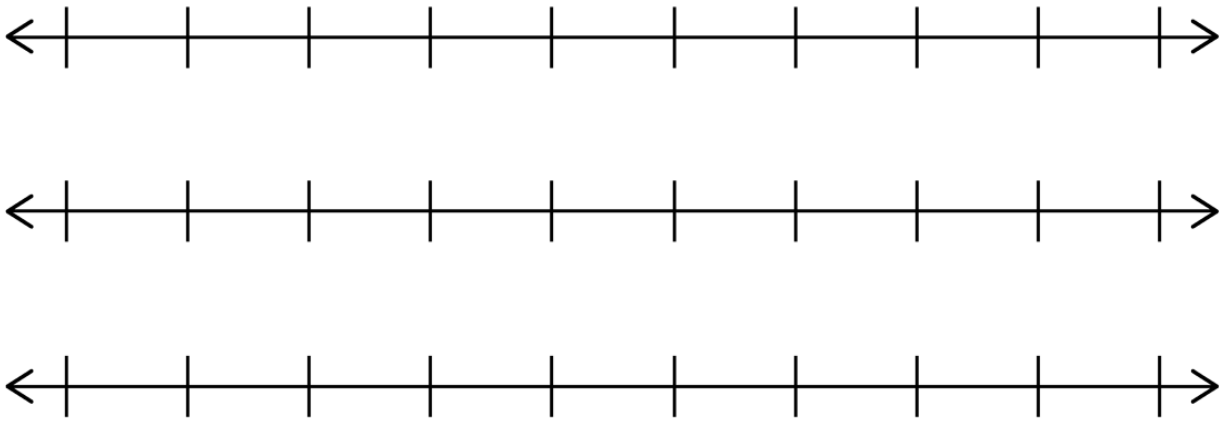
3. $[-3,4[\cup]-1,5[$



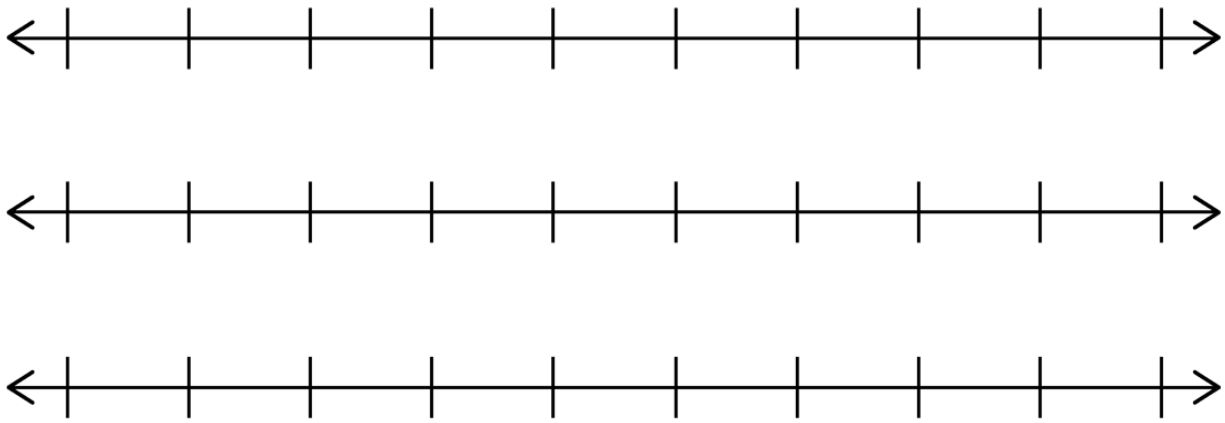
4. $[-5,0] \cap]-2,2[$



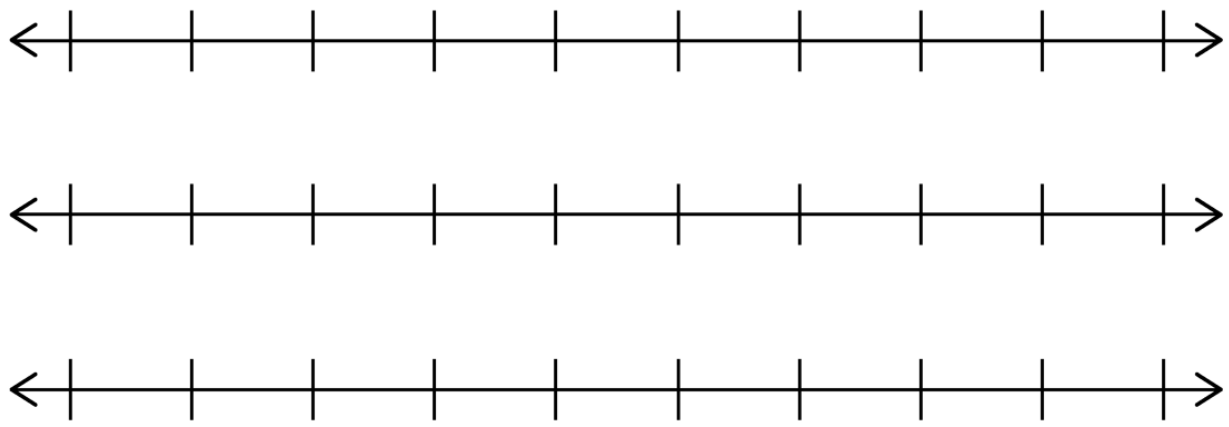
5. $[0,4[\setminus]-3,2]$



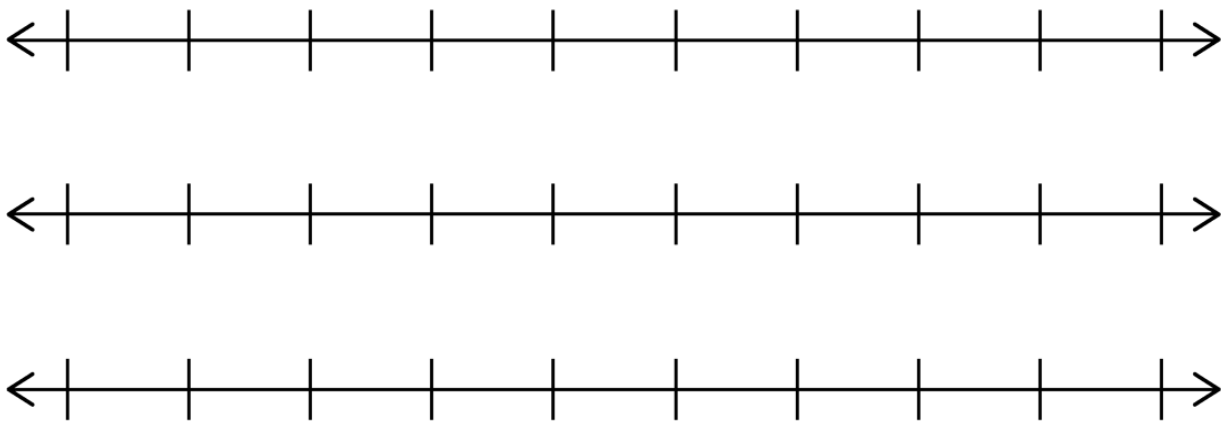
6. $[-6,0] \cap [-3,1]$



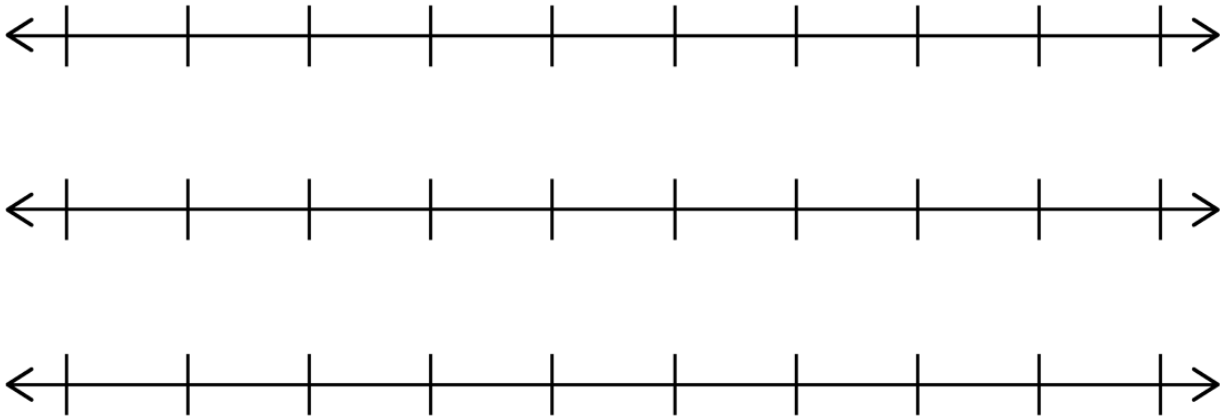
7. $]1,3[\cup]-2,1]$



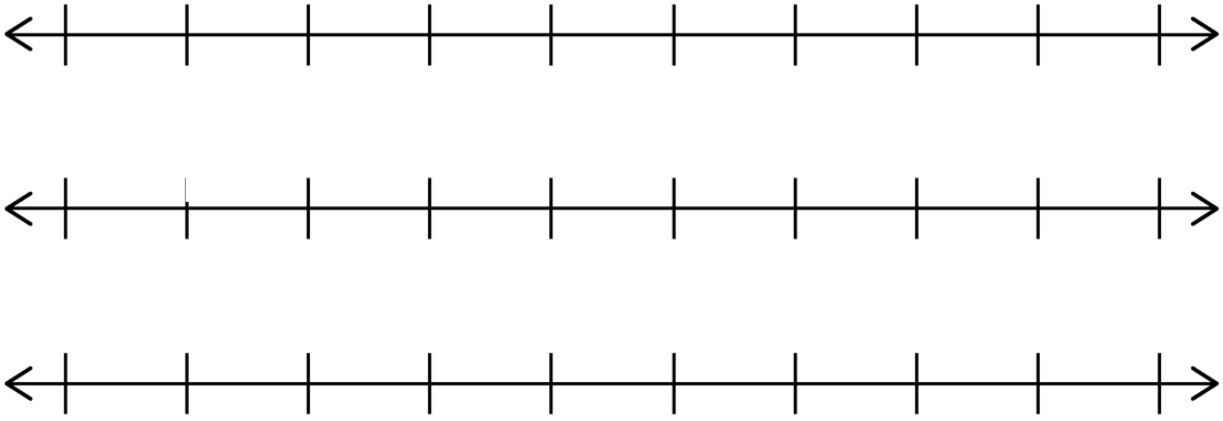
8. $-\infty,-1] \setminus]-3,0]$



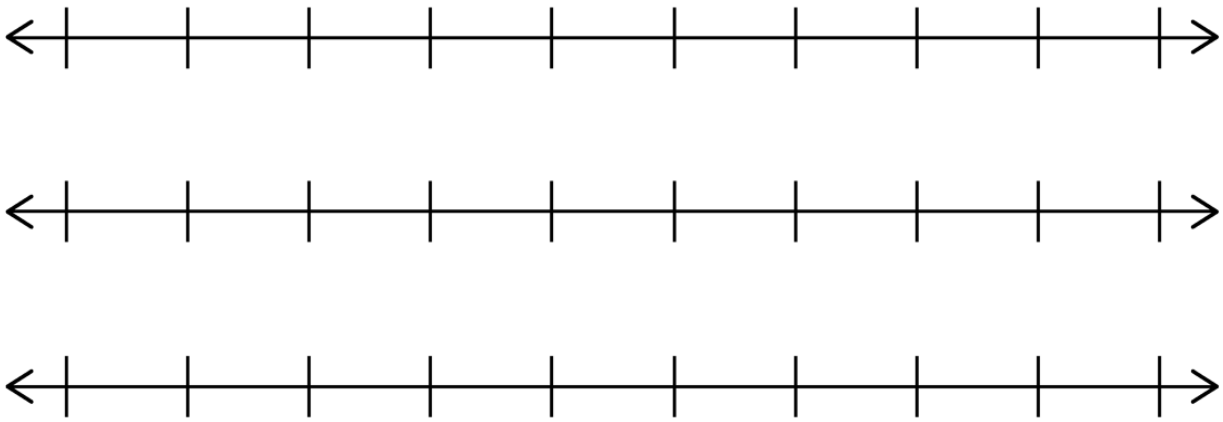
9. $[4,\infty \cap\ ]-1,\infty$



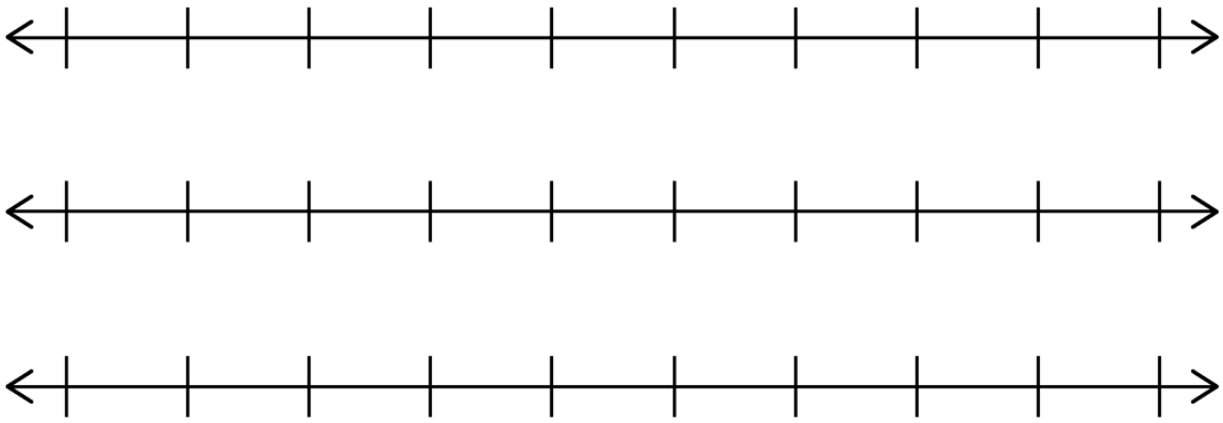
10. $-\infty,-1[\ \cup\ ]-1,4]$



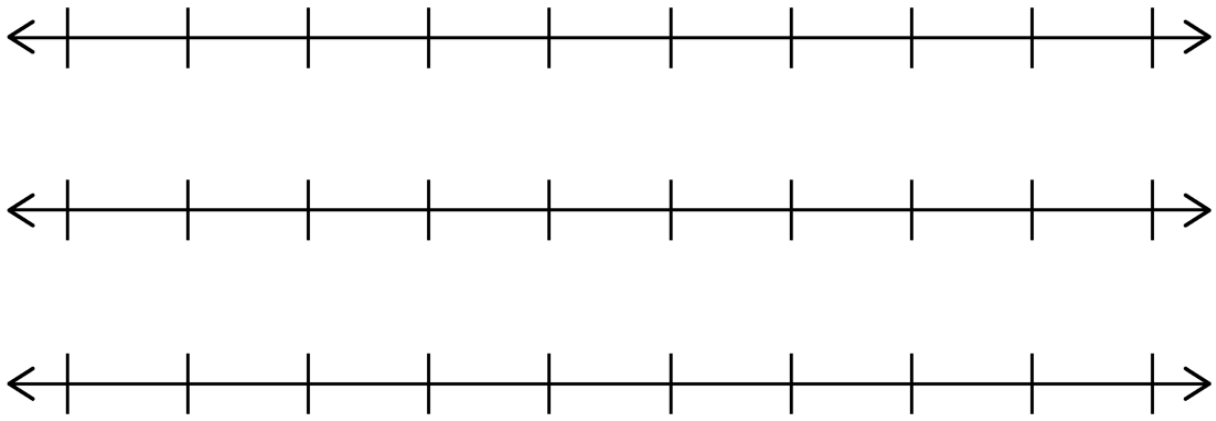
11. $]-2,\infty \setminus [-4,3]$



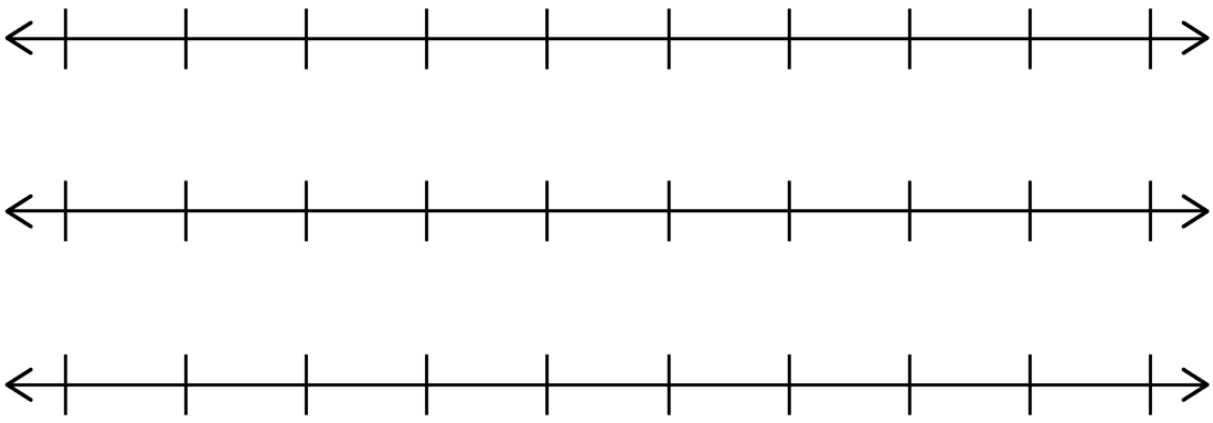
12. $-\infty,0] \setminus -\infty,-1[$



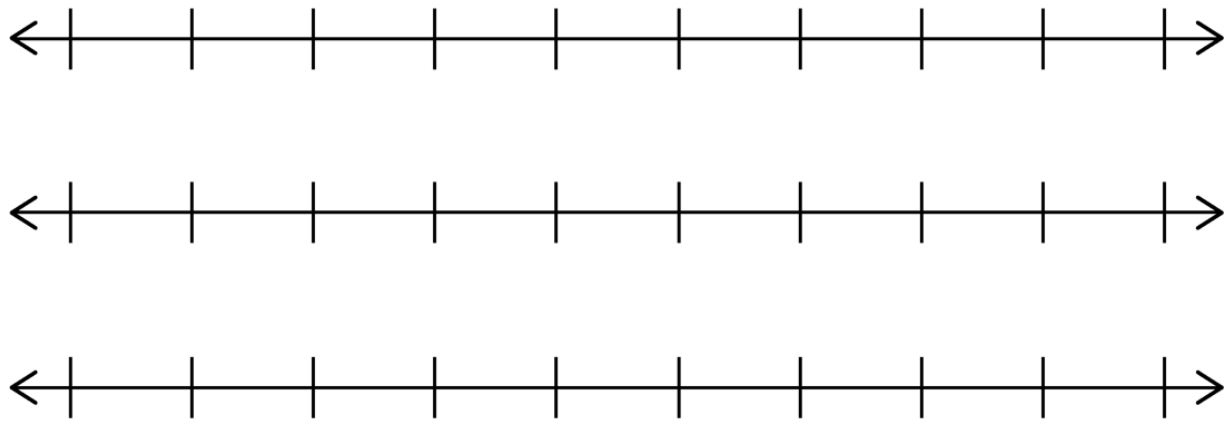
13. $[5,\infty \cap -\infty,7[$



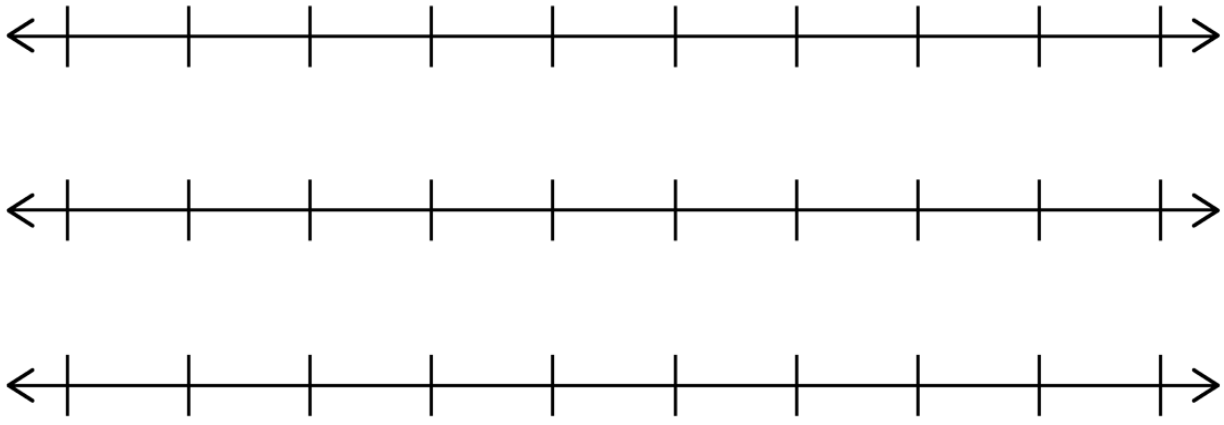
14. $[3,7[\cup -\infty,4]$



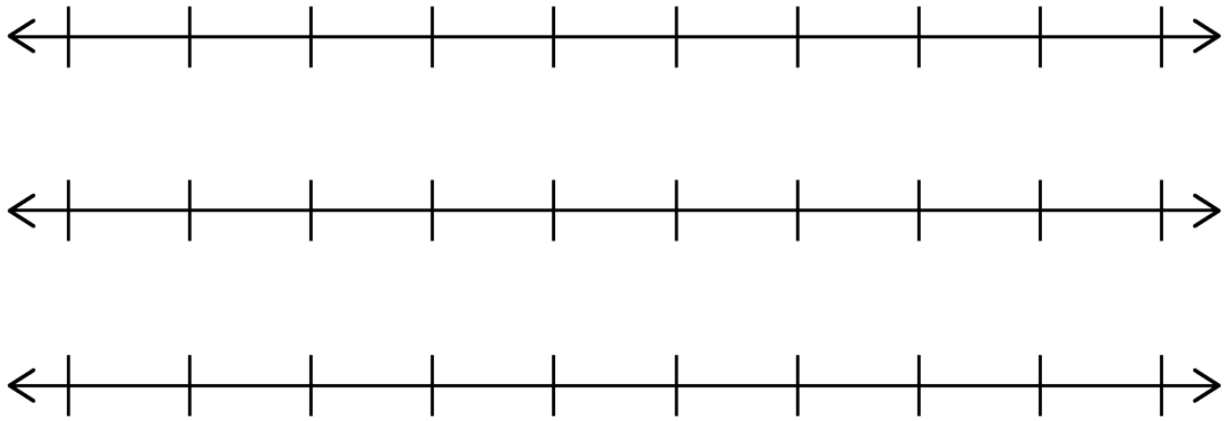
15. $-\infty,-2] \,/\, [-4,\infty$



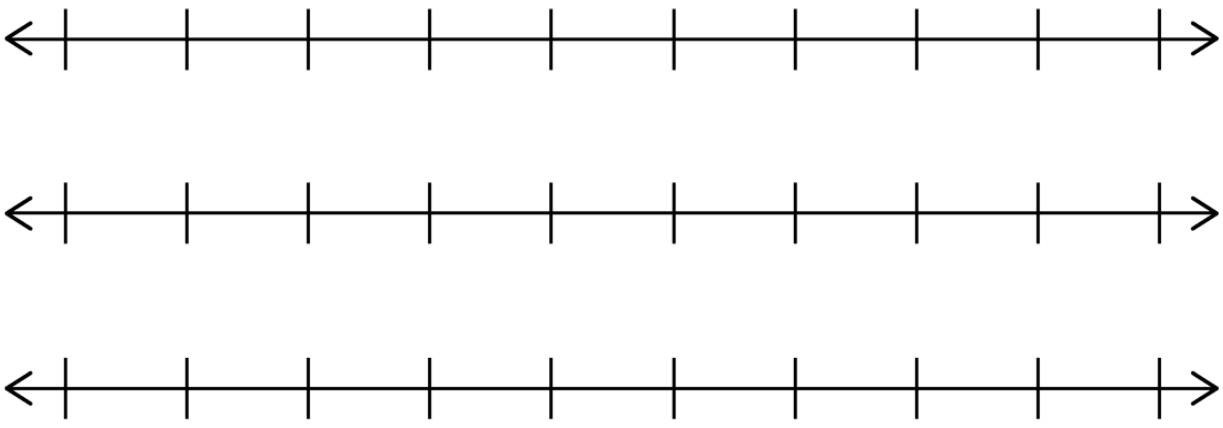
16. $[2,\infty] \cup [-\infty,2[$



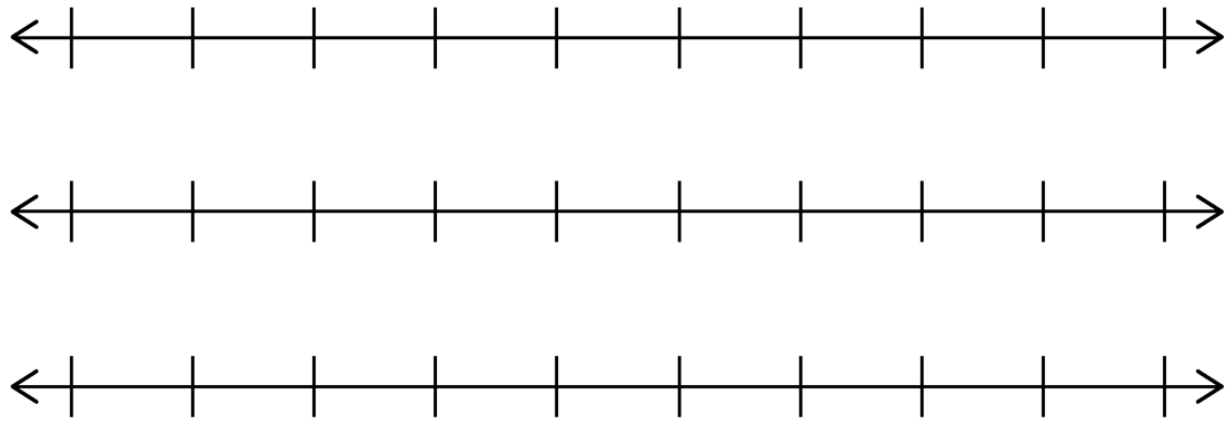
17. [-1,1] U [-4,0]



18. $-\infty,\infty \cap [-2,0]$



19. [-4,-1] /]-2,1]



20.]-4,2] U [-3,∞